

## Serpin E1 Protein, Rat (HEK293, His)

Cat. No.:	HY-P73655
Synonyms:	Plasminogen activator inhibitor 1; PAI-1; Serpin E1; Serpine1; Planh1
Species:	Rat
Source:	HEK293
Accession:	NP_036752.1 (S24-P402)
Gene ID:	24617
Molecular Weight:	48-60 kDa

### PROPERTIES

AA Sequence	<pre> S P L P E S H T A Q   Q A T N F G V K V F   Q H V V Q A S K D R   N V V F S P Y G V S S V L A M L Q L T T   A G K T R Q Q I Q D   A M G F N I S E R G   T A P A L R K L S K E L M G S W N K N E   I S T A D A I F V Q   R D L E L V Q G F M   P H F F K L F R T T V K Q V D F S E V E   R A R F I I N D W V   E R H T K G M I S D   L L A K G A V N E L T R L V L V N A L Y   F N G Q W K T P F L   E A S T H Q R L F H   K S D G S T I S V P M M A Q N N K F N Y   T E F T T P D G H E   Y D I L E L P Y H G   E T L S M F I A A P F E K D V P L S A I   T N I L D A E L I R   Q W K S N M T R L P   R L L I L P K F S L E T E V D L R G P L   E K L G M T D I F S   S T Q A D F T S L S   D Q E Q L S V A Q A L Q K V K I E V N E   S G T V A S S S T A   I L V S A R M A P T   E M V L D R S F L F V V R H N P T E T I   L F M G Q L M E P           </pre>
Biological Activity	Measured by its ability to inhibit uPA cleavage of a peptide substrate, N-carbobenzyloxy-Gly-Gly-Arg-7-amido-4-methylcoumarin (Z-GGR-AMC). The IC <sub>50</sub> value is < 80 nM.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in PBS, pH 7.4. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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## Background

The SERPINE1 protein is a single-chain glycoprotein composed of 379 amino acids that are mainly synthesized and secreted by platelets, megakaryocytes, hepatocytes, adipocytes, smooth muscle cells, and vascular endothelial cells. The active site of the protein is Arg346-Met347. The half-life of activated SERPINE1 at 37°C is 1–2 h, transforming spontaneously into the latent form. In the fibrinolytic system, SERPINE1 plays a physiological role as an inhibitor of fibrinogen activators. SerpinE1 drives a cell-autonomous pathogenic signaling in Hutchinson-Gilford progeria syndrome [1].

SERPINE1 was identified as a regulator of glioblastoma cell dispersal and downregulation of SERPINE1 limited the proliferation and invasion of glioma cells[3].

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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